CLAIMS

- A lateral flow immunoassay device for identifying the presence of tissue from 1 1. a particular species of billfish in a test sample, the device comprising a substrate onto which a 2 3 billfish specific antigen-containing sample has been immobilized. 2. The immunoassay device of claim 1, wherein the substrate comprises a 1 2 nitrocellulose membrane. 1 3. The immunoassay device of claim 2, wherein the substrate comprises a plastic-backed nitrocellulose membrane. 4. The immunoassay device of claim 1, wherein the substrate has a first end and a second end, the first end having thereon the immobilized billfish-specific antigencontaining sample, and the second end being adapted to receive a solution comprising an antibody that specifically binds the billfish-specific antigen. 1 5. The immunoassay device of claim 4, wherein the solution further comprises at least a portion of the test sample. 2 1 6. The immunoassay device of claim 1, wherein the billfish-specific antigen is a
- 2 billfish serum albumin.
- 7. 1 The immunoassay device of claim 6, wherein the billfish serum albumin 2 comprisess sailfish serum albumin.

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1	16.	A kit for identifying the presence of tissue from a particular species of billfish			
2	in a test sample, the kit comprising:				
3		a lateral flow immunoassay device comprising a substrate onto which a			
4	billfish- spec	billfish- specific antigen-containing sample has been immobilized; and			
5		a solution comprising an antibody that specifically binds the billfish-specific			
6	antigen.				
1	17.	The kit of claim 16, wherein the billfish specific antigen is a billfish serum			
2	albumin.				
1	18.	The kit of claim 17, wherein the billfish serum albumin is selected from the			
2 h.j	group consisting of sailfish serum albumin; blue marlin serum albumin; and white marlin				
3 113	serum albumi	erum albumin.			
1 man and a man	19.	The kit of claim 16, wherein the antibody is detectably labeled.			
1	20.	The kit of claim 19, wherein the detectably labeled antibody is conjugated to a			
2	gold particle.				
1	21.	The kit of claim 20, wherein the gold particle has a diameter of between 20-40			
2	nm.				
1	22.	The kit of claim 16, wherein a non-billfish specific antigen has been			
2	immobilized on the substrate.				
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A method for identifying the presence of tissue from a particular species of

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1	29.	A method for identifying the presence of tissue from a particular species of			
2	billfish in a test sample, the method comprising the steps of:				
3		(A)	providing the test sample and a substrate;		
4		(B)	immobilizing at least a portion of the test sample on the substrate;		
5		(C)	providing an antibody that specifically binds a billfish-specific antigen;		
6	and				
7		(D)	applying the antibody to the substrate.		
1	30.	The m	ethod of claim 29, wherein the billfish-specific antigen is a billfish		
	serum albumi	in.			
	31.	The m	ethod of claim 30, wherein the billfish serum albumin is selected from		
	the group con	ne group consisting of sailfish serum albumin; blue marlin serum albumin; and white marlin			
3 miles and constitution of	serum albumi	in.			
and the party of t	32.	The m	nethod of claim 29, wherein the antibody is detectably labeled.		
1	33.	The m	ethod of claim 32, wherein the detectably labeled antibody is		
2	conjugated to	ed to a gold particle.			
1	34.	The m	ethod of claim 29, wherein a non-billfish specific antigen has been		
2	immobilized of	nmobilized on the substrate.			

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